

Some exact solutions of the self-consistent Einstein-Cartan-Vlasov equations

Galiakhmetov A.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

We consider a self-gravitating, collisionless, single-component, relativistic gas in a space with torsion. For several different metrics, exact particular solutions of the self-consistent Einstein-Cartan-Vlasov equations are obtained for dust with the help of a particular form of the torsion tensor. The solutions obtained are compared with those in general relativity. © 1986 Plenum Publishing Corporation.

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